WEST Search History

Hide Items Restore Clear Cancel

DATE: Monday, February 06, 2006

Hide?	<u>Set</u> Name	Query	<u>Hit</u> Count	
DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR				
	L23	L21 and (dr1p\$4 or dr5p\$4)	1	
	L22	L21 and phosphorylas\$4	7	
	L21	L1 and (Tischer or Ihlenfeldt or Barzu or Sakamoto or Pistotnik or Marliere or Pochet).in.	42	
	L20	L19 and (dr1p\$4 or dr5p\$4)	4	
	L19	L18 and vitro\$4	1108	
	L18	L17 and (synthes\$4 or produc\$4)	1262	
	L17	L16 and phosphat\$4	1265	
	L16	L15 and (mutas\$4 or aldolas\$4 or transferas\$4)	1285	
	L15	L14 and (purine\$4 or pyrimidine\$4)	2321	
	L14	L13 and phosphorylas\$4	2983	
	L13	deoxyribonucleosid\$4 or nucleosid\$4	35628	
	L12	L11 and (drlp\$ or rlp\$4)	5	
	L11	L10 and (aldolas\$4 or mutas\$4 or transferas\$4)	1325	
	L10	L9 and phosphorylas\$4	2389	
	L9	11 and (purin\$4 or pyrimidin\$4)	17007	
	L8	L7 and transferas?	76	
	L7	L6 and (mutase\$4 or aldolas\$4)	87	
	L6	L5 same (produc\$4 or synthe\$4)	679	
	L5	L4 same (purin\$4 or pyrimidin\$4)	1701	
	L4	L1 same phosphorylas\$4	2106	
	L3	L2 and purine\$4	2185	
	L2	L1 and phosphorylas\$4	3065	
	L1	deoxynucleosid\$4 or nucleosid\$4	36122	

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 12:40:16 ON 06 FEB 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 12:40:29 ON 06 FEB 2006 SEA NUCLEOSIDE? OR DEOXINUCLEOSID?

31680 FILE ADISCTI 402 FILE ADISINSIGHT 587 FILE ADISNEWS 888 FILE AGRICOLA 987 FILE ANABSTR 7 FILE ANTE 18 FILE AQUALINE 273 FILE AQUASCI 1434 FILE BIOENG 34089 FILE BIOSIS 2646 FILE BIOTECHABS 2646 FILE BIOTECHDS 8222 FILE BIOTECHNO 2517 FILE CABA 56448 FILE CAPLUS 357 FILE CEABA-VTB 477 FILE CIN 973 FILE CONFSCI 40 FILE CROPB 113 FILE CROPU 14692 FILE DDFB 9472 FILE DDFU 42966 FILE DGENE 2095 FILE DISSABS 14692 FILE DRUGB 10919 FILE DRUGU 236 FILE EMBAL 27403 FILE EMBASE 8796 FILE ESBIOBASE 566 FILE FEDRIP 172 FILE FROSTI 401 FILE FSTA 28121 FILE GENBANK 53 FILE HEALSAFE 4539 FILE IFIPAT 763 FILE IMSDRUGNEWS 8 FILE IMSPRODUCT 345 FILE IMSRESEARCH 12585 FILE JICST-EPLUS 6 FILE KOSMET 9317 FILE LIFESCI 36165 FILE MEDLINE 259 FILE NIOSHTIC 432 FILE NTIS 2 FILE NUTRACEUT 56 FILE OCEAN 27779 FILE PASCAL 11 FILE PCTGEN 248 FILE PHAR 347 FILE PHARMAML 5 FILE PHIC 820 FILE PHIN 3697 FILE PROMT 1424 FILE PROUSDDR 1 FILE PS 1 FILE RDISCLOSURE 32836 FILE SCISEARCH

235 FILE SYNTHLINE

```
24665 FILE TOXCENTER
     24317 FILE USPATFULL
      2059 FILE USPAT2
      147 FILE VETB
       54 FILE VETU
       29 FILE WATER
      5492 FILE WPIDS
       30 FILE WPIFV
      5492 FILE WPINDEX
      712 FILE IPA
      151 FILE NAPRALERT
      2186 FILE NLDB
         QUE NUCLEOSIDE? OR DEOXINUCLEOSID?
11
        D RANK
  FILE 'CAPLUS, MEDLINE, BIOSIS, SCISEARCH, ADISCTI, GENBANK, PASCAL,
  EMBASE, TOXCENTER, USPATFULL' ENTERED AT 12:43:10 ON 06 FEB 2006
     323503 SEA NUCLEOSIDE? OR DEOXINUCLEOSID?
      15679 SEA L2 (S) PHOSPHORYLAS?
L3
L4
      1775 SEA L3 (S)(SYNTHE?)
L5
      2714 SEA L3(S)(PRODUC? OR SYNTHE?)
        3 SEA L5 AND PHOSPHOPENTOSE?
L6
L7
       430 SEA L5 AND ALDOLAS?
L8
       314 SEA L7 AND MUTASE?
L9
      2311 SEA L5 AND (PURIN? OR PYRIMIDIN?)
       449 SEA L9 AND (MUTAS? OR ALDOLAS? OR PHOSPHOPENTOS?)
L10
       391 SEA L10 AND TRANSFERAS?
L11
       391 DUP REM L11 (0 DUPLICATES REMOVED)
L12
        D TI L12 1-100
        D TI L12 101-200
        D TI L12 201-300
        D TI L12 301-391
        D TI L6 1-3
      338433 SEA DEOXYRIBONUCLEOSI? OR NUCLEOSID?
L13
L14
      15679 SEA L3 AND PHOSPHORYLAS?
      18246 SEA L13 AND PHOSPHORYLAS?
L15
       3148 SEA L15 AND (MUTAS? OR TRANSFERAS? OR ALDOLAS?)
L16
L17
       2309 SEA L16 AND PHOSPHAT?
       1243 SEA L17 AND THYMIDIN?
L18
L19
       1059 SEA L18 AND (PURIN? OR PYRIMIDINE?)
       1014 SEA L19 AND (SYNTHES? OR PRODUCT?)
L20
L21
        67 SEA L20 AND DR1P? OR DR5P?
L22
        4 SEA L20 AND (DR1P? OR DR5P?)
        D TI L22 1-4
> file medline biosis caplus
COST IN U.S. DOLLARS
                                   SINCE FILE
                                                TOTAL
                            ENTRY
                                    SESSION
FULL ESTIMATED COST
                                       0.21
FILE 'MEDLINE' ENTERED AT 18:22:39 ON 06 FEB 2006
FILE 'BIOSIS' ENTERED AT 18:22:39 ON 06 FEB 2006
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=> s inorganic(s)phosphat?(s)remov?
      192 INORGANIC(S) PHOSPHAT?(S) REMOV?
L1
=> s I1(s)pyrophosphat?
       8 L1(S) PYROPHOSPHAT?
L2
=> s inorganic(s)phosphat?(s)precipit?
      160 INORGANIC(S) PHOSPHAT?(S) PRECIPIT?
```

=> s I3(s)pyrophosphat? 1 L3(S) PYROPHOSPHAT?

=> d ti 14

L4 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN TI EFFECTS OF THE ADDITION OF CALCIUM ON THE COLLOIDAL STABILITY OF SOYMILK.

=> s inorganic(s)phosphat?(s)phosphofructosekinas?

0 INORGANIC(S) PHOSPHAT?(S) PHOSPHOFRUCTOSEKINAS?

=> s inorganic(s)phosphat?(s)phosphofructokinas?

57 INORGANIC(S) PHOSPHAT?(S) PHOSPHOFRUCTOKINAS?

=> d ti 16 1-57

=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

0.21 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 10:33:28 ON 08 FEB 2006

73 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s inorgan?(s)phosphat?(s)pyrophosphat?

74 FILE AGRICOLA 17 FILE ANABSTR

1 FILE ANTE

6 FILE AQUALINE

18 FILE AQUASCI

27 FILE BIOENG

296 FILE BIOSIS

68 FILE BIOTECHABS

68 FILE BIOTECHDS

155 FILE BIOTECHNO

193 FILE CABA

179 FILE CAPLUS

5 FILE CEABA-VTB

4 FILE CONFSCI

18 FILES SEARCHED ...

4 FILE CROPU

25 FILE DDFB

6 FILE DDFU

133 FILE DGENE

38 FILE DISSABS

25 FILE DRUGB

13 FILE DRUGU

3 FILE EMBAL

194 FILE EMBASE

172 FILE ESBIOBASE

12* FILE FEDRIP

2 FILE FOMAD

33 FILES SEARCHED...

4 FILE FROSTI

41 FILE FSTA

337 FILE GENBANK

1 FILE HEALSAFE

194 FILE IFIPAT

```
20 FILE JICST-EPLUS
    1 FILE KOSMET
   176 FILE LIFESCI
   311 FILE MEDLINE
    9 FILE NIOSHTIC
    8 FILE NTIS
    4 FILE OCEAN
   135 FILE PASCAL
   14 FILE PROMT
   13 FILE RDISCLOSURE
59 FILES SEARCHED ...
  214 FILE SCISEARCH
   37 FILE TOXCENTER
  4584 FILE USPATFULL
407 FILE USPAT2
   9 FILE WATER
   474 FILE WPIDS
   1 FILE WPIFV
   474 FILE WPINDEX
   2 FILE IPA
    1 FILE NAPRALERT
    6 FILE NLDB
```

52 FILES HAVE ONE OR MORE ANSWERS, 73 FILES SEARCHED IN STNINDEX

L1 QUE INORGAN?(S) PHOSPHAT?(S) PYROPHOSPHAT?

```
=> d rank
F1
     4584 USPATFULL
      474 WPIDS
F2
      474 WPINDEX
F3
F4
      407 USPAT2
F5
      337 GENBANK
F6
      311 MEDLINE
F7
      296 BIOSIS
F8
      214 SCISEARCH
F9
      194 EMBASE
F10
      194 IFIPAT
F11
      193 CABA
F12
      179 CAPLUS
F13
      176 LIFESCI
F14
      172 ESBIOBASE
F15
      155 BIOTECHNO
F16
      135 PASCAL
F17
      133 DGENE
F18
       74 AGRICOLA
F19
       68 BIOTECHABS
F20
       68 BIOTECHDS
F21
       41 FSTA
F22
       38 DISSABS
F23
       37 TOXCENTER
F24
       27 BIOENG
F25
       25 DDFB
F26
       25 DRUGB
F27
       20 JICST-EPLUS
F28
       18 AQUASCI
F29
       17 ANABSTR
F30
       14 PROMT
F31
       13 DRUGU
F32
       13 RDISCLOSURE
F33
       12* FEDRIP
F34
       9 NIOSHTIC
F35
       9 WATER
F36
       8 NTIS
F37
       6 AQUALINE
F38
       6 DDFU
F39
       6 NLDB
F40
       5 CEABA-VTB
```

```
4 CONFSCI
F41
F42
        4 CROPU
F43
        4 FROSTI
F44
        4 OCEAN
F45
        3 EMBAL
        2 FOMAD
F46
F47
        2 IPA
F48
        1 ANTE
        1 HEALSAFE
F49
F50
        1 KOSMET
F51
        1 WPIFV
        1 NAPRALERT
F52
=> file f1-f4,f6-f11
                                    SINCE FILE
COST IN U.S. DOLLARS
                                                 TOTAL
                            ENTRY
                                     SESSION
FULL ESTIMATED COST
                                        2.44
                                                2.65
FILE 'USPATFULL' ENTERED AT 10:35:48 ON 08 FEB 2006
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COPYRIGHT (C) 2006 IFI CLAIMS(R) Patent Services (IFI)
FILE 'CABA' ENTERED AT 10:35:48 ON 08 FEB 2006
COPYRIGHT (C) 2006 CAB INTERNATIONAL (CABI)
=> s inorgan?(s)phosphat?(s)pyrophosphat?
      6867 INORGAN?(S) PHOSPHAT?(S) PYROPHOSPHAT?
=> s I2 (s)(conver? or remov? or complex? or precipit?)
 2 FILÈS SEARCHED...
      819 L2 (S)(CONVER? OR REMOV? OR COMPLEX? OR PRECIPIT?)
=> s i3(s)enzym?
      183 L3(S) ENZYM?
=> dup rem I4
PROCESSING COMPLETED FOR L4
       164 DUP REM L4 (19 DUPLICATES REMOVED)
=> s I3(s)phosphofructokinas?
       24 L3(S) PHOSPHOFRUCTOKINAS?
=> dup rem 16
PROCESSING COMPLETED FOR L6
```

23 DUP REM L6 (1 DUPLICATE REMOVED)

)

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LOGINID:ssspta1652dmr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 6 DEC 14 CA/CAplus to be enhanced with updated IPC codes
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAplus with the
IPC reform
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB

NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC

NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT

NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV

NEWS 13 JAN 30 Saved answer limit increased

NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency added to TULSA

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=> index bioscience medicine FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 12:40:29 ON 06 FEB 2006

73 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

```
=> s nucleoside? or deoxinucleosid?
      31680
             FILE ADISCTI
        402
              FILE ADISINSIGHT
        587
              FILE ADISNEWS
        888
              FILE AGRICOLA
        987
              FILE ANABSTR
         7
              FILE ANTE
        18
              FILE AQUALINE
       273
              FILE AQUASCI
      1434
              FILE BIOENG
      34089
              FILE BIOSIS
      2646
             FILE BIOTECHABS
       2646
             FILE BIOTECHDS
       8222
            FILE BIOTECHNO
      2517
            FILE CABA
      56448
            FILE CAPLUS
             FILE CEABA-VTB
       357
       477
             FILE CIN
        973
             FILE CONFSCI
        40
             FILE CROPB
             FILE CROPU
       113
      14692
            FILE DDFB
      9472
            FILE DDFU
            FILE DGENE
      42966
      2095
            FILE DISSABS
      14692 FILE DRUGB
            FILE DRUGU
      10919
            FILE EMBAL
       236
      27403
            FILE EMBASE
      8796
            FILE ESBIOBASE
       566
             FILE FEDRIP
       172
            FILE FROSTI
       401
            FILE FSTA
     28121
            FILE GENBANK
        53
             FILE HEALSAFE
       4539
             FILE IFIPAT
             FILE IMSDRUGNEWS
       763
             FILE IMSPRODUCT
         8
             FILE IMSRESEARCH
       345
  41 FILES SEARCHED...
     12585
             FILE JICST-EPLUS
             FILE KOSMET
         6
      9317
             FILE LIFESCI
     36165
             FILE MEDLINE
       259
             FILE NIOSHTIC
        432
             FILE NTIS
         2
             FILE NUTRACEUT
             FILE OCEAN
        56
     27779
             FILE PASCAL
             FILE PCTGEN
        11
             FILE PHAR
       248
       347
             FILE PHARMAML
             FILE PHIC
```

5 820

FILE PHIN

```
3697 FILE PROMT
1424 FILE PROUSDDR
   1 FILE PS
   1 FILE RDISCLOSURE
32836 FILE SCISEARCH
 235 FILE SYNTHLINE
24665 FILE TOXCENTER
24317
       FILE USPATFULL
       FILE USPAT2
2059
       FILE VETB
 147
       FILE VETU
  54
       FILE WATER
  29
 5492
       FILE WPIDS
       FILE WPIFV
  30
       FILE WPINDEX
 5492
 712
       FILE IPA
 151
       FILE NAPRALERT
2186
       FILE NLDB
```

70 FILES HAVE ONE OR MORE ANSWERS, 73 FILES SEARCHED IN STNINDEX

L1 QUE NUCLEOSIDE? OR DEOXINUCLEOSID?

```
=> d rank
        56448
                 CAPLUS
F2
        42966
                DGENE
F3
        36165
                MEDLINE
F4
        34089
                BIOSIS
F5
        32836
                SCISEARCH
F6
        31680
                ADISCTI
F7
        28121
                GENBANK
F8
        27779
                PASCAL
F9
        27403
                EMBASE
        24665
F10
                 TOXCENTER '
        24317
F11
                USPATFULL
F12
        14692
                DDFB
F13
        14692
                DRUGB
F14
        12585
                JICST-EPLUS
F15
        10919
                DRUGU
                DDFU
F16
         9472
F17
         9317
                LIFESCI
F18
         8796
                ESBIOBASE
F19
         8222
                BIOTECHNO
F20
         5492
                WPIDS
F21
         5492
                WPINDEX
F22
         4539
                IFIPAT
F23
         3697
                PROMT
F24
         2646
                BIOTECHABS
F25
         2646
                BIOTECHDS
F26
         2517
                CABA
F27
         2186
                NLDB
F28
         2095
                DISSABS
F29
         2059
                USPAT2
F30
         1434
                BIOENG
F31
         1424
                PROUSDDR
F32
          987
                ANABSTR
F33
          973
                 CONFSCI
F34
          888
                AGRICOLA
F35
          820
                 PHIN
                 IMSDRUGNEWS
F36
          763
F37
          712
                IPA
F38
                ADISNEWS
           587
F39
           566
                FEDRIP
F40
           477
                CIN
F41
           432
                NTIS
```

F42	402	ADISINSIGHT
F43	401	FSTA
F44	357	CEABA-VTB
F45	347	PHARMAML
F46	345	IMSRESEARCH
F47	273	AQUASCI
F48	259	NIOSHTIC
F49	248	PHAR
F50	236	EMBAL
F51	235	SYNTHLINE
F52	172	FROSTI
F53	151	NAPRALERT
F54	147	VETB
F55	113	CROPU
F56	56	OCEAN
F57	54	VETU
F58	53	HEALSAFE
F59	40	CROPB
F60	30	WPIFV
F61	29	WATER
F62	18	AQUALINE
F63	11	PCTGEN
F64	8	IMSPRODUCT
F65	7	ANTE
F66	6	KOSMET
F67	5	PHIC
F68	2	NUTRACEUT
F69	1	PS
F70	1	RDISCLOSURE

=> file f1, f3-f11
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 3.05 3.26

FULL ESTIMATED COST

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```
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=> s nucleoside? or deoxinucleosid?
        323503 NUCLEOSIDE? OR DEOXINUCLEOSID?
L2
=> s 12 (s)phosphorylas?
        15679 L2 (S) PHOSPHORYLAS?
=> s 13 (s)(synthe?)
          1775 L3 (S) (SYNTHE?)
=> s 13(s) (produc? or synthe?)
   7 FILES SEARCHED...
          2714 L3(S)(PRODUC? OR SYNTHE?)
=> s 15 and phosphopentose?
             3 L5 AND PHOSPHOPENTOSE?
=> s 15 and aldolas?
           430 L5 AND ALDOLAS?
=> s 17 and mutase?
           314 L7 AND MUTASE?
=> s 15 and (purin? or pyrimidin?)
          2311 L5 AND (PURIN? OR PYRIMIDIN?)
=> s 19 and (mutas? or aldolas? or phosphopentos?)
           449 L9 AND (MUTAS? OR ALDOLAS? OR PHOSPHOPENTOS?)
=> s 110 and transferas?
          391 L10 AND TRANSFERAS?
=> dup rem 111
DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L11
L12
            391 DUP REM L11 (0 DUPLICATES REMOVED)
=> d ti 112 1-100
L12 ANSWER 1 OF 391 USPATFULL on STN
TI
      Use of interfering RNA in the production of transgenic animals
L12 ANSWER 2 OF 391 USPATFULL on STN
ΤI
       Methods for identifying small molecules that modulate premature
       translation termination and nonsense mrna decay
L12 ANSWER 3 OF 391 USPATFULL on STN
TI
      Methods and products based on oligomerization of stress proteins
L12 ANSWER 4 OF 391 USPATFULL on STN
TI
       Signatures of ER status in breast cancer
L12 ANSWER 5 OF 391 USPATFULL on STN
TI
       Polynucleotides and polypeptides, materials incorporating them and
       methods for using them
L12 ANSWER 6 OF 391 USPATFULL on STN
       Methods and apparatus for gel-free qualitative and quantitative proteome
       analysis, and uses therefore
```

FILE 'USPATFULL' ENTERED AT 12:43:10 ON 06 FEB 2006

L12 ANSWER 7 OF 391 USPATFULL on STN

=> d his full

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=> s inorganic(s)phosphat?(s)remov?
L1
          192 INORGANIC(S) PHOSPHAT?(S) REMOV?
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8 L1(S) PYROPHOSPHAT?

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F13		176	LIFESCI
F14		172	ESBIOBASE
F15		155	BIOTECHNO
F16		135	PASCAL
F17		133	DGENE
F18		74	AGRICOLA
F19		68	BIOTECHABS
F20		68	BIOTECHDS
F21		41	FSTA
F22		38	DISSABS
F23		37	TOXCENTER
F24		27	BIOENG
F25		25	DDFB
F26		25	DRUGB
F27		20	JICST-EPLUS
F28		18	AOUASCI
F29		17	ANABSTR
F30		14	PROMT
F31		13	DRUGU
F32		13	RDISCLOSURE
F33		12*	FEDRIP
F34		9	NIOSHTIC
F35		9	WATER
F36		8	NTIS
F37		6	AQUALINE
F38		6	DDFU
F39		6	NLDB
F40		5	CEABA-VTB
F41		4	CONFSCI
F42		4	CROPU
F43		4	FROSTI
F44		4	OCEAN
F45		3	EMBAL
F46		2	FOMAD
F47		2	IPA
F48		1	ANTE
F49		1	HEALSAFE
F50		1	KOSMET
F51		1	WPIFV
F52		1	NAPRALERT
		1	TATE KALIEKT

=> file f1-f4,f6-f11 COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL SESSION 2.44 2.65

FILE 'USPATFULL' ENTERED AT 10:35:48 ON 08 FEB 2006 CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'WPIDS' ENTERED AT 10:35:48 ON 08 FEB 2006 COPYRIGHT (C) 2006 THE THOMSON CORPORATION FILE 'WPINDEX' ACCESS NOT AUTHORIZED FILE 'USPAT2' ENTERED AT 10:35:48 ON 08 FEB 2006 CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'MEDLINE' ENTERED AT 10:35:48 ON 08 FEB 2006 FILE 'BIOSIS' ENTERED AT 10:35:48 ON 08 FEB 2006 Copyright (c) 2006 The Thomson Corporation FILE 'SCISEARCH' ENTERED AT 10:35:48 ON 08 FEB 2006 Copyright (c) 2006 The Thomson Corporation FILE 'EMBASE' ENTERED AT 10:35:48 ON 08 FEB 2006 Copyright (c) 2006 Elsevier B.V. All rights reserved. FILE 'IFIPAT' ENTERED AT 10:35:48 ON 08 FEB 2006 COPYRIGHT (C) 2006 IFI CLAIMS(R) Patent Services (IFI) FILE 'CABA' ENTERED AT 10:35:48 ON 08 FEB 2006 COPYRIGHT (C) 2006 CAB INTERNATIONAL (CABI) => s inorgan?(s)phosphat?(s)pyrophosphat? 6867 INORGAN? (S) PHOSPHAT? (S) PYROPHOSPHAT? => s 12 (s) (conver? or remov? or complex? or precipit?) 2 FILES SEARCHED... 819 L2 (S) (CONVER? OR REMOV? OR COMPLEX? OR PRECIPIT?) => s 13(s)enzym? L4183 L3(S) ENZYM? => dup rem 14 PROCESSING COMPLETED FOR L4 164 DUP REM L4 (19 DUPLICATES REMOVED) => s 13(s)phosphofructokinas? 24 L3(S) PHOSPHOFRUCTOKINAS? => dup rem 16 PROCESSING COMPLETED FOR L6 23 DUP REM L6 (1 DUPLICATE REMOVED) => d ti 15 1-164 ANSWER 1 OF 164 USPATFULL on STN 1.5 TТ Identification of novel e2f target genes and use thereof ANSWER 2 OF 164 USPATFULL on STN 1.5 TI Cleaning composition L5 ANSWER 3 OF 164 USPATFULL on STN ΤI Gene expression profiling of colon cancer with DNA arrays L5 ANSWER 4 OF 164 USPATFULL on STN ΤI Carbohydrate purification using ultrafiltration, reverse osmosis and nanofiltration

L5

ANSWER 5 OF 164 USPATFULL on STN

=> d ti 17 1-23

- L7 ANSWER 1 OF 23 USPATFULL on STN
- TI Methods and apparatus for gel-free qualitative and quantitative proteome analysis, and uses therefore
- L7 ANSWER 2 OF 23 USPATFULL on STN
- TI Acyl-nucleotide probes and methods of their synthesis and use in proteomic analysis
- L7 ANSWER 3 OF 23 USPATFULL on STN DUPLICATE 1
- TI Methods and apparatuses for gel-free qualitative and quantitative proteome analysis, and uses therefore
- L7 ANSWER 4 OF 23 USPATFULL on STN
- TI Matrices for drug delivery and methods for making and using the same
- L7 ANSWER 5 OF 23 USPATFULL on STN
- TI Translational profiling
- L7 ANSWER 6 OF 23 USPATFULL on STN
- TI Fusion proteins comprising DP-178 and other viral fusion inhibitor peptides useful for treating aids
- L7 ANSWER 7 OF 23 USPATFULL on STN
- TI Nucleic acids encoding DP-178 and other viral fusion inhibitor peptides useful for treating aids
- L7 ANSWER 8 OF 23 USPATFULL on STN
- TI Compositions and methods for modeling bacillus subtilis metabolism
- L7 ANSWER 9 OF 23 USPATFULL on STN
- TI Yeast proteome analysis
- L7 ANSWER 10 OF 23 USPATFULL on STN
- TI Libraries of expressible gene sequences
- L7 ANSWER 11 OF 23 USPATFULL on STN
- TI Matrices for drug delivery and methods for making and using the same
- L7 ANSWER 12 OF 23 USPATFULL on STN
- TI Libraries of expressible gene sequences
- L7 ANSWER 13 OF 23 USPATFULL on STN
- TI Models and methods for determining systemic properties of regulated reaction networks
- L7 ANSWER 14 OF 23 USPATFULL on STN
- TI Nucleotide sequence of the mycoplasma genitalium genome, fragments thereof, and uses thereof
- L7 ANSWER 15 OF 23, USPATFULL on STN
- TI Regulation and manipulation of sucrose content in sugarcane
- L7 ANSWER 16 OF 23 USPATFULL on STN
- TI Methods for identifying drug targets based on genomic sequence data
- L7 ANSWER 17 OF 23 USPATFULL on STN
- TI Polynucleotides and polypeptides derived from corn ear
- L7 ANSWER 18 OF 23 USPATFULL on STN
- TI Matrices for drug delivery and methods for making and using the same
- L7 ANSWER 19 OF 23 USPAT2 on STN

- TI Genome DNA of bacterial symbiont of aphids
- ANSWER 20 OF 23 USPATFULL on STN L7
- Genomic DNA sequences of ashbya gossypii and uses thereof TI
- ANSWER 21 OF 23 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN L7
- In vitro enzymatic synthesis of deoxyribonucleosides comprises reacting TI deoxyribose 1-phosphate and a nucleobase to form a deoxyribonucleoside and an inorganic phosphate.
- L7 ANSWER 22 OF 23 CABA COPYRIGHT 2006 CABI on STN
- ΤI Alternate routes for starch synthesis in developing grains of wheat and sorghum: indirect evidence through its regulation by inorganic phosphates and organic acids.
- L7 ANSWER 23 OF 23 CABA COPYRIGHT 2006 CABI on STN
- ΤI Transgenic potato plants with strongly decreased expression of pyrophosphate:fructose-6-phosphate phosphotransferase show no visible phenotype and only minor changes in metabolic fluxes in their tubers.
- => d ibib abs 4 8 12 17 24 30-31 56-57 62 65 66 71-72 96 111 125 128 129 135 15

ANSWER 4 OF 164 USPATFULL on STN

ACCESSION NUMBER:

2005:309655 USPATFULL

TITLE:

Carbohydrate purification using ultrafiltration,

reverse osmosis and nanofiltration

INVENTOR(S):

DeFrees, Shawn, North Wales, PA, UNITED STATES

PATENT ASSIGNEE(S):

Neose Technologies, Horsham, PA, UNITED STATES (U.S.

corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

APPLICATION INFO.:

US 2005269265 A1 20051208 US 2005-198839 A1 20050804 (11)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 2002-104609, filed on 22 Mar 2002, GRANTED, Pat. No. US 6936173 Continuation of Ser. No. US 1997-947775, filed on 9 Oct 1997, GRANTED,

Pat. No. US 6454946

NUMBER DATE -----

PRIORITY INFORMATION:

US 1996-28226P 19961010 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: MORGAN, LEWIS & BOCKIUS LLP (SF), 2 PALO ALTO SQUARE,

PALO ALTO, CA, 94306, US

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

1-30

LINE COUNT:

1545

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention provides methods for purifying carbohydrates, including oligosaccharides, nucleotide sugars, and related compounds, by use of ultrafiltration, nanofiltration and/or reverse osmosis. The carbohydrates are purified away from undesired contaminants such as compounds present in reaction mixtures following enzymatic synthesis or degradation of oligosaccharides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 164 USPATFULL on STN

ACCESSION NUMBER:

2005:254953 USPATFULL

TITLE:

Mannosyl transfer with regeneration of GDP-mannose

INVENTOR (S): PATENT ASSIGNEE(S): Wong, Chi-Huey, Rancho Santa Fe, CA, UNITED STATES The Scripps Research Institute (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005221447 A1 20051006

APPLICATION INFO.: US 2005-145810 A1 20050606 (11)

RELATED APPLN. INFO.: Division of Ser. No. US 2002-262503, filed on 1 Oct 2002, GRANTED, Pat. No. US 6919440 Division of Ser. No. US 1993-122229, filed on 15 Sep 1993, GRANTED, Pat. No.

US 6485930

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: WELSH & KATZ, LTD, 120 S RIVERSIDE PLAZA, 22ND FLOOR,

CHICAGO, IL, 60606, US

NUMBER OF CLAIMS: 2 EXEMPLARY CLAIM: 1-12 LINE COUNT: 1068

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A one-pot glycosylation reaction is disclosed in which a mannosyl (Man) group is enzymatically transferred to an acceptor molecule. The starting glycoside is a mannosyl 1-phosphate that is enzymatically converted to its GDP derivative via UTP and a pyrophorylase. The formed GDP derivative is used in the enzyme-catalyzed glycosyl transfer. That enzyme-catalyzed glycosyl transfer to an acceptor releases GDP that is enzymatically converted to GTP for further conversion of mannosyl 1-phosphate into its GDP derivative. Also disclosed are a recombinant α 1,2-mannosyltransferase that is enzymatically active, is dispersible in an aqueous reaction medium, and free of the transmembrane portion of the native enzyme, as well as DNA encoding that transferase, an expression vector containing exogenous DNA that encodes that enzyme and E. coli cells containing that vector.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2005:220892 USPATFULL

TITLE:

INVENTOR(S):

Enzymes

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Blake, Julie J., San Francisco, CA, UNITED STATES

Ho, Anne, Sunnyvale, CA, UNITED STATES
Zheng, Wenjin, Mountain View, CA, UNITED STATES

Gao, Jin, Sunnyvale, CA, UNITED STATES

PATENT ASSIGNEE(S): Incyte Corporation, Palo Alto, CA, UNITED STATES, 94304

(U.S. corporation)

		NUMBER	KIND	DATE	
PATENT INFORMATION:	US	2005191627	A1	20050901	
APPLICATION INFO.:	US	2003-491183	A1	20020926	(10)
	WO	2002-US31096		20020926	

20040329 PCT 371 date

			NUMBER	DATE	
PRIORITY	INFORMATION:	US	2003-326388P	20010928	(60)
		US	2003-328979P	20011012	(60)
		US	2003-346034P	20011019	(60)
		US	2003-348284P	20011026	(60)
		US	2003-338048P	20011108	(60)
		US	2003-332340P	20011116	(60)
		US	2003-368799P	20020329	(60)
		US	2003-368722P	20020329	(60)
		US	2003-381588P	20020517	(60)
		US	2003-387119P	20020607	(60)
		US	2003-390662P	20020621	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: INCYTE CORPORATION, EXPERIMENTAL STATION, ROUTE 141 &

HENRY CLAY ROAD, BLDG. E336, WILMINGTON, DE, 19880, US

NUMBER OF CLAIMS: 30 EXEMPLARY CLAIM: 1 LINE COUNT: 19139

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Various embodiments of the invention provide human enzymes (ENZM) and polynucleotides which identify and encode ENZM. Embodiments of the invention also provide expression vectors, host cells, antibodies, agonists, and antagonists. Other embodiments provide methods for diagnosing, treating, or preventing disorders associated with aberrant expression of ENZM.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 17 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2005:158186 USPATFULL

TITLE: Cell-based assay for identifying peptidase inhibitors

INVENTOR(S): Fang, Hong, Chapmansboro, TN, UNITED STATES
Green, Neil, Chapmansboro, TN, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005136394	A1	20050623	
APPLICATION INFO.:	US 2004-842846	A1	20040511	(10)

NUMBER DATE

PRIORITY INFORMATION: US 2003-480625P 20030623 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: FULBRIGHT & JAWORSKI L.L.P., SUITE 2400, 600 CONGRESS

AVENUE, AUSTIN, TX, 78701-3271, US

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 2115

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides assays for the identification of inhibitors of endopeptidase toxins. The assays utilize genetically engineered yeast cells that contain a conditionally expressed endopeptidase toxin. When conditions for expression of the toxin are met, the toxin cleaves a yeast (natural or engineered) peptide product that is required for yeast survival. If the yeast is grown in the presence of an candidate substance that is an inhibitor of the toxin, the yeast survives, thereby providing a rapid and sensitive identification of the inhibitor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 24 OF 164 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 2005-296144 [30] WPIDS

DOC. NO. CPI: C2005-091609

TITLE: Inhibiting misincorporation of a terminator in a single

base primer extension reaction, useful in analyzing nucleic acid variations, by enzymatically removing

inorganic pyrophosphate prior to or during a single base

extension reaction.

DERWENT CLASS: B04 D16
INVENTOR(S): BUZBY. P

PATENT ASSIGNEE(S): (PEKE) PERKINELMER LAS INC

COUNTRY COUNT: 108

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2005033328 A2 20050414 (200530) * EN 59

RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG

US UZ VC VN YU ZA ZM ZW

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
	· 		
WO 2005033328	A2	WO 2004-US32164	20040930

PRIORITY APPLN. INFO: US 2003-481443P 20030930

AN 2005-296144 [30] WPIDS

AB WO2005033328 A UPAB: 20050512

NOVELTY - Inhibiting misincorporation of a terminator in a single base primer extension reaction comprises providing a product of a nucleic acid synthesis reaction, the product comprising a nucleic acid template and a quantity of inorganic pyrophosphate, and incubating the product and an inorganic pyrophosphatase to decrease the quantity of pyrophosphate.

DETAILED DESCRIPTION - The method of inhibiting misincorporation of a terminator in a single base primer extension reaction cited above further comprises providing a product of a nucleic acid synthesis reaction, the product comprising a nucleic acid template and a quantity of inorganic

pyrophosphate, incubating the product and an inorganic pyrophosphatase to decrease the quantity of pyrophosphate, to yield a purified reaction product, combining the purified reaction product, a primer, a terminator having a detectable label, and a polymerase to form a mixture, and incubating the mixture to extend the primer by addition of the terminator in a single base primer extension reaction, where decreasing the quantity of inorganic pyrophosphate in the product of a nucleic acid synthesis reaction inhibits pyrophosphorolysis in the single base primer extension reaction, so as to inhibit misincorporation of a terminator.

INDEPENDENT CLAIMS are also included for the following:

- (1) a composition, comprising an inorganic pyrophosphatase, a residual component removal agent selected from an alkaline phosphatase, an exonuclease, and their combination, and a carrier;
- (2) a composition for use in reducing misincorporation of a terminator in a single base extension reaction, comprising an acyclo nucleoside terminator, an inorganic pyrophosphate as mentioned, a pyrophosphatase and a carrier;
- (3) a commercial package comprising a mixture of an exonuclease, an alkaline phosphatase, an inorganic pyrophosphatase as mentioned, and a carrier, and instructions for use of the mixture in a primer extension reaction; and
- (4) a process for determining the identity of a nucleotide at an interrogation site.

USE - The inorganic pyrophosphatase is useful in a process for identification of an interrogation site by single base extension (claimed). The methods and compositions of the present invention are also useful for detecting and characterizing a specified nucleotide in a nucleic acid sequence, in particular for reducing misincorporation of a labeled nucleotide or nucleotide analog in a primer extension reaction and for analyzing nucleic acid variations, such as single nucleotide polymorphisms. Dwg.0/3

ANSWER 30 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2004:327408 USPATFULL

TITLE: Glycorandomization and production of novel vancomycin

analogs

INVENTOR(S): Thorson, Jon, Middleton, WI, UNITED STATES

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation (U.S. corporation)

KIND DATE NUMBER -----US 2004259228 A1 US 2003-670073 A1 PATENT INFORMATION: 20041223

APPLICATION INFO.: 20030924 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-109672, filed

on 1 Apr 2002, PENDING

NUMBER DATE -----

US 2001-279682P 20010330 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: GODFREY & KAHN, S.C., 780 N. WATER STREET, MILWAUKEE,

WI, 53202

NUMBER OF CLAIMS: 43 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 17 Drawing Page(s)

LINE COUNT: 3698

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides combinatorial methods for rapidly generating a diverse library of glycorandomized structures, comprising incubating one or more aglycons and a pool of NDP-sugars in the presence of a glycosyltransferase. The glycosyltransferase may be one that is associated with or involved in production of natural secondary metabolites, or one which is putatively associated with or involved in

production of natural secondary metabolites. The glycosyltransferase may show significant flexibility with respect to its NDP-sugar donors and/or its aglycons. NDP-sugar donors may be commercially available, or may be produced by utilizing mutant or wild type nucleotidyltransferases significant flexibility with respect to their substrates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 31 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2004:315541 USPATFULL TITLE: Method of making teprenone

INVENTOR(S): Saucy, Gabriel G., Essex Fells, NJ, UNITED STATES

NUMBER KIND DATE -----PATENT INFORMATION: US 2004249219 A1 20041209 US 2001-899418 A1 20010703 (9) APPLICATION INFO.:

NUMBER DATE

PRIORITY INFORMATION: US 2000-215897P 20000705 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SHERIDAN ROSS PC, 1560 BROADWAY, SUITE 1200, DENVER,

CO, 80202

NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
1388

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention is directed to an efficient and economical method of making teprenone. Teprenone is synthesized by converting geranylgeraniol to teprenone by a novel route. The method of synthesis can begin with geranylgeraniol obtained from a biological source such as fermentation of a microorganism capable of producing geranylgeranyl or enzymatic synthesis in a cell free system to produce predominantly the 5E isomer of teprenone. The chemical synthesis proceeds with retention of configuration such that the teprenone produced has the isomeric configuration of the geranylgeraniol starting material.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 56 OF 164 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 2004-698721 [68] WPIDS CROSS REFERENCE: 2004-698712 [68] DOC. NO. CPI: C2004-247100

TITLE: Preparing plasmid, comprises preparing cleared host cell

lysate, and enzymatically converting open circular plasmid obtained from lysate or from unintentional conversion of supercoiled plasmid from lysate, to

supercoiled plasmid.

DERWENT CLASS: B04 D16 INVENTOR(S): HYMAN, E D

PATENT ASSIGNEE(S): (HYMA-I) HYMAN E D

COUNTRY COUNT: PATENT INFORMATION:

> PATENT NO KIND DATE WEEK LA PG -----US 2004191871 A1 20040930 (200468)*

APPLICATION DETAILS:

PATENT NO KIND APPLICATION US 2004191871 A1 US 2003-396880 20030325

PRIORITY APPLN. INFO: US 2003-396880 20030325

AN 2004-698721 [68] WPIDS

CR 2004-698712 [68]

AB US2004191871 A UPAB: 20041026

NOVELTY - Preparing (M1) plasmid from host cells which contain the plasmid, comprises preparing a cleared lysate of the host cells, and in vitro enzymatically converting open circular plasmid to supercoiled plasmid.

DETAILED DESCRIPTION - Preparing (M1) plasmid from host cells which contain the plasmid, comprises preparing a cleared lysate of the host cells, and in vitro enzymatically converting open circular plasmid to supercoiled plasmid, where the open circular plasmid is obtained from the cleared lysate or obtained from supercoiled plasmid from the cleared lysate which is beforehand unintentionally converted to open circular plasmid.

INDEPENDENT CLAIMS are also included for the following:

- (1) an enzyme composition (C1) useful for converting unligatable open circular plasmid to supercoiled plasmid comprising:
- (i) DNA gyrase, DNA ligase, polynucleotide kinase, and 3'-phosphatase;
- (ii) DNA polymerase I, DNA ligase, DNA gyrase, and not comprising a primase enzyme;
- (iii) 3'-deblocking enzyme, DNA polymerase I, DNA ligase and DNA gyrase; or
- (iv) DNA polymerase I, DNA ligase, DNA gyrase, and one or more exonucleases, where the exonucleases selectively degrade linear chromosomal DNA without degrading open circular plasmid, relaxed covalently closed circular plasmid, and supercoiled plasmid; and
- (2) preparing highly supercoiled plasmid from host cells which contain host supercoiled plasmid, comprising preparing a cleared lysate of the host cells, where the cleared lysate comprises the host supercoiled plasmid, enzymatically in vitro converting open circular plasmid to supercoiled plasmid, where the open circular plasmid is obtained from the cleared lysate or obtained from supercoiled plasmid from the cleared lysate which is beforehand unintentionally converted to open circular plasmid, and incubating in vitro the host supercoiled plasmid with DNA gyrase in the presence of DNA gyrase nucleotide cofactor, where the host supercoiled plasmid is further supercoiled.

USE - (M1) is useful for preparing plasmid from host cells which contain the plasmid (claimed).

ADVANTAGE - (M1) provides increased supercoiled plasmid yield. The theoretical maximum yield of supercoiled plasmid is 100% of starting plasmid. (M1) avoids nicking damage in the initial plasmid processing, as any nicked plasmid will be converted to supercoiled plasmid. (M1) prepares large plasmids, which tend to have a higher percentage of open circular plasmid due to their larger size. The gyrase incubation increases the extent of supercoiling. The increased supercoiled state could create a more condensed plasmid molecule with potentially greater transformability. The DNA gyrase incubation converts all plasmid to a more highly supercoiled state.

DESCRIPTION OF DRAWING(S) - The figure shows a method of preparing plasmid from host cell which contains the plasmid.

Dwg.1/1

L5 ANSWER 57 OF 164 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 2004-280268 [26] WPIDS

DOC. NO. NON-CPI: N2004-221971 DOC. NO. CPI: C2004-108059

TITLE: Stabilization reagent composition for stabilizing blood sample containing platelets, has reactants that generate multiple species of formaldehyde-ammonium complexes, inhibitors of phosphatase and protease enzymatic

activities.

DERWENT CLASS:

A89 A96 B04 B05 D16 S03

INVENTOR(S):

MAPLES, J A; CHARIE, L A; FLAGLER, D J; MILLS, R A;

TIMMONS, R

PATENT ASSIGNEE(S):

(MAPL-I) MAPLES J A; (BECI) BECKMAN COULTER INC; (COUS)

COULTER INT CORP

COUNTRY COUNT:

29

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA PG
US 2004038424	A1 20040226	(200426) *	31
WO 2004017895	A2 20040304	(200426)	EN
DIV. AM DEL DO	OU OV OF DE	סם סם עם	מס מס זי

RW: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR

35 31

W: JP

US 6913932 B2 20050705 (200544)

EP 1552269

A2 20050713 (200546) EN

R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT

RO SE SI SK TR

JP 2005536550 W 20051202 (200582)

41

APPLICATION DETAILS:

PATENT NO	KIND	A	PPLICATION	DATE
US 2004038424	A1	US	2002-226825	20020823
WO 2004017895	A2	WO	2003-US24426	20030806
US 6913932	B2	US	2002-226825	20020823
EP 1552269	A2	EP	2003-793016	20030806
		WO	2003-US24426	20030806
JP 2005536550	W	WO	2003-US24426	20030806
		JP	2004-530872	20030806

FILING DETAILS:

PAT	TENT NO	KI	ND		I	PATENT NO
EP	1552269	A2	Based	on	WO	2004017895
JР	2005536550	W	Based	on	WO	2004017895

PRIORITY APPLN. INFO: US 2002-226825

20020823

AN 2004-280268 [26] WPIDS

AB US2004038424 A UPAB: 20040421

NOVELTY - A stabilization reagent composition (I) comprising reactants that generate multiple species of formaldehyde-ammonium complexes, at least one inhibitor of phosphatase enzymatic activity, and at least one inhibitor of protease enzymatic activity, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a stabilized blood sample (II) containing platelets treated with
 (I);
 - (2) a kit comprising:
- (a) as a first separate component, an aliphatic aldehyde of 1-4 carbon atoms in liquid or powder form or reactants that upon hydrolysis generate formaldehyde;
- (b) as a second separate component, a solution comprising an ammonium salt solution, where the component has a physiological pH that does not adversely effect the stabilizing function of the composition;
 - (c) at least one inhibitor of phosphatase enzymatic activity;
 - (d) at least one inhibitor of protease enzymatic activity; and
- (e) instructions for mixing the above components prior to contacting the mixture with a blood sample containing platelets immediately upon withdrawal from the body; and
 - (3) assessing the efficacy of a blood cell stabilizing reagent

comprising measuring platelet activation by contacting a blood sample which has been treated with a cell-stabilizing reagent composition with an activating material that activates cellular response by causing physical and/or enzymatic changes in platelets, storing the sample at 20-25 deg. C for 72 hours, and determining the change in expression of CD62p on platelets in the sample compared with the expression of CD62p on platelets in a sample that has not been treated with the reagent composition, where the percentage of platelets expressing the CD62p antigen in the reagent treated samples is less than that percentage in an untreated sample stored for the same duration.

USE - (I) is useful for stabilizing blood cells in a blood sample containing platelets which involves contacting the sample with (I), where cells in the sample are characterized by a stabilized expression of CD62p on platelets in the sample for at least 24 hours after the treatment, where the treated sample maintains plus or minus 20% of the number of CD62p positive platelets that would be found in the blood sample, when the sample is measured without treatment immediately after withdrawal from the body. The method further comprises the step of drawing a blood sample into a calcium chelating anticoagulant or a coagulation pathway inhibitor prior to the contacting step. The method further comprises measuring platelet activation potential by contacting the sample with an activating material that is known to activate cellular response by causing physical and/or enzymatic changes in platelets and an associated increase in CD62p expression, storing the sample at 20-25 deg. C for 72 hours, and determining the change in expression of CD62p on platelets in the sample compared with the expression of CD62p on platelets in a sample untreated with the reagent composition, where the percentage of platelets expressing the CD62p antigen in the reagent treated samples is less than that percentage in an untreated sample stored for the same duration. The activating material is a solution of phorbol 12-myristate 13-acetate (PMA) that is added to a final concentration of 0.001-5 micro M in the sample. The change in percentage of CD62p platelets indicative of stabilization is measured by flow cytometry according to the formula: (Parameter C minus Parameter A) is greater than (Parameter D minus Parameter B), where, Parameter A is the percentage of CD62p positive platelets in an anticoagulated blood sample containing no stabilization reagent composition, Parameter B is the percentage of CD62p positive platelets in an anticoagulated blood sample incubated with the stabilization reagent composition for one hour, Parameter C is the percentage of CD62p positive platelets in an anticoagulated blood sample containing no stabilization reagent composition to which the PMA is added to a concentration 0.001-5 micro M and incubated for up to one hour, and Parameter D is the percentage of CD62p positive platelets in the anticoagulated blood sample containing the stabilization reagent to which the PMA is added to a concentration 0.001-5 micro M and incubated for up to one hour. The percentage of CD62p positive platelets in the blood containing stabilization reagent does not change more than 20% within the first hour after addition of the PMA (all claimed).

ADVANTAGE - The composition prevents or reduces cellular activation and response to environmental change without changing the antigenic makeup of the cells. The treated sample has the same state of platelet activation that is found in an untreated blood sample that is measured immediately upon withdrawal from the body. The presence of stabilizer prevents post-withdrawal activation of the platelets in the sample by in vitro environmental conditions. The presence of the stabilizer in the blood samples stabilizes the platelet activation state so that the percentage of CD62p platelets in the stabilized blood sample increases by no more than 20% over the percentage of CD62p platelets in the blood sample measured immediately upon withdrawal. The composition and methods stabilize in a donor's withdrawn blood sample for at least 24 hours the percentage of CD62p platelets. This stabilization of the blood sample thereby enables accurate diagnosis of disease based on percentage of CD62p platelets in blood samples that are stored prior to evaluation. Thus, in the case of a healthy donor, the methods and compositions permit evaluation of the blood sample by providing a state of platelet activation that is not unduly high due to in vitro environmental conditions. In the case of an unhealthy donor, the methods and compositions permit evaluation of the blood sample by providing a state of platelet activation that is not unduly low due to in vitro environmental conditions. Dwq.0/13

L5 ANSWER 62 OF 164 USPATFULL on STN DUPLICATE 5

ACCESSION NUMBER: 2003:213620 USPATFULL

TITLE: In situ screening to optimize variables in organic

reactions

INVENTOR(S): Berkowitz, David B., Lincoln, NE, UNITED STATES

Bose, Mohua, La Jolla, CA, UNITED STATES Choi, Sungjo, Chonan-City, KOREA, REPUBLIC OF

PATENT ASSIGNEE(S): University of Nebraska, Lincoln, NE, UNITED STATES

(U.S. corporation)

NUMBER DATE

PRIORITY INFORMATION: US 2002-386438P 20020607 (60)

US 2002-371159P 20020410 (60)

US 2001-317810P 20010906 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: BANNER & WITCOFF, 1001 G STREET N W, SUITE 1100,

WASHINGTON, DC, 20001

NUMBER OF CLAIMS: 55 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Page(s)

LINE COUNT: 3066

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A biphasic process for rapid screening of organic reactions comprising monitoring relative rates of parallel organic reactions. The screening process is suitable to determine the efficacy of different reactants, process conditions, and process enhancers such as catalysts or promoters. The biphasic process also allows multiple samples to be analyzed/monitored simultaneously. In addition because enzymes are used to monitor the reaction product in this invention, when that product is chiral and an enantio-discriminating enzyme is used to monitor the product, in addition to the relative rates, enantioselectivities of a set of parallel organic reactions can also be determined. The monitoring is done in situ and thus removal of aliquots for separate testing is unnecessary

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 65 OF 164 USPATFULL on STN DUPLICATE 8

ACCESSION NUMBER: 2003:71370 USPATFULL TITLE: Amplification process

INVENTOR(S): Clark, Duncan Roy, Farnborough, UNITED KINGDOM

Vincent, Suzanne Patricia, Farnborough, UNITED KINGDOM

NUMBER DATE

PRIORITY INFORMATION: GB 2001-10501 20010430

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: JOHN S. PRATT, ESQ, KILPATRICK STOCKTON, LLP, 1100

PEACHTREE STREET, SUITE 2800, ATLANTA, GA, 30309

NUMBER OF CLAIMS: 2 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Page(s)

LINE COUNT: 1571

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for conducting a nucleic acid amplification reaction, said method comprising forming an amplification reaction mixture in the presence of sufficient of a pyrophosphate salt to prevent primer extension taking place, digesting said pyrophosphate salt with a pyrophosphatase enzyme (PPase), and subjecting said reaction mixture to conditions such that an amplification reaction may proceed.

This can be used as a "hot start" amplification.

Particular novel pyrophosphatase enzymes for use in the method are also described and claimed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 66 OF 164 USPATFULL on STN DUPLICATE 9

ACCESSION NUMBER: 2003:64673 USPATFULL

TITLE: 5'-thio phosphate directed ligation of oligonucleotides

and use in detection of single nucleotide polymorphisms

INVENTOR(S): Bandaru, Rajanikanth, Corelville, IA, UNITED STATES

Kumar, Gyanendra, Guilford, CT, UNITED STATES

PATENT ASSIGNEE(S): Bandaru and Kumar (U.S. corporation)

NUMBER DATE

PRIORITY INFORMATION: US 2001-259918P 20010105 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Alan J. Grant, Esq., c/o Carella, Byrne, Bain,

Gilfillan,, Cecchi, Stewart & Olstein, 6 Becker Farm

Road, Roseland, NJ, 07068

NUMBER OF CLAIMS: 35 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 21 Drawing Page(s)

LINE COUNT: 1835

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides a novel method for ligation of oligonucleotides containing 5'-phosphorothioates on complementary templates by the action of DNA ligases. This reaction is readily applied to the synthesis of a single stranded circular DNA containing a phosphorothioate linkage at the site of ligation junction. The efficiency of 5'-phosphorothioate directed ligation reaction by ATP dependent DNA ligase reaction is similar to conventional 5'-phosphate ligation. The utility of enzymatic ligation in probing specific sequences of DNA is also described. The present invention also provides a novel non-enzymatic ligation of 5'-phosphorothioates that has been applied to the synthesis of single strand phosphorothioate and phosphate circular DNA. A process for detecting the presence of a mismatch in an otherwise complementary pair of oligonucleotides is disclosed using an enzyme-based technique which shows the presence of a mismatch by failing

to form a ligated single stranded DNA circle that can optionally be amplified using standard methods of rolling circle amplification.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 71 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2003:207209 USPATFULL

TITLE: Methods for enzymatic conversion of GDP-mannose to

GDP-fucose

Sjoberg, Eric R., San Diego, CA, UNITED STATES INVENTOR(S):

PATENT ASSIGNEE(S): Cytel Corporation (U.S. corporation)

KIND DATE NUMBER -----US 2003143567 A1 20030731 US 2002-206655 A1 20020725 (10) PATENT INFORMATION:
APPLICATION INFO.: APPLICATION INFO.:

Division of Ser. No. US 1999-231905, filed on 14 Jan RELATED APPLN. INFO.:

1999, GRANTED, Pat. No. US 6500661

NUMBER DATE -----

US 1998-71076P 19980115 (60) PRIORITY INFORMATION:

PRIORITY INTO DOCUMENT TYPE: Utility APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834 55

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Page(s)

LINE COUNT: 2449

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention provides methods for practical enzymatic conversion of

GDP-mannose to GDP-fucose. These methods are useful for efficient

synthesis of reactants used in the synthesis of fucosylated

oligosaccharides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 72 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2003:194592 USPATFULL

TITLE: Nucleic acids useful for enzymatic conversion of

GDP-mannose to GDP-fucose

Sjoberg, Eric R., San Diego, CA, UNITED STATES INVENTOR(S):

Cytel Corporation (U.S. corporation) PATENT ASSIGNEE(S):

NUMBER KIND DATE -----PATENT INFORMATION: US 2003134403 A1 20030717 APPLICATION INFO.: US 2002-206485 A1 20020725 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-231905, filed on 14 Jan

1999, GRANTED, Pat. No. US 6500661

NUMBER DATE -----

PRIORITY INFORMATION: US 1998-71076P 19980115 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 55 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Page(s)

LINE COUNT: 2445

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention provides methods for practical enzymatic conversion of

GDP-mannose to GDP-fucose. These methods are useful for efficient synthesis of reactants used in the synthesis of fucosylated oligosaccharides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 96 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2002:287597 USPATFULL

TITLE: Practical in vitro sialylation of recombinant

qlycoproteins

INVENTOR (S): Paulson, James C., Del Mar, CA, UNITED STATES

> Bayer, Robert J., San Diego, CA, UNITED STATES Sjoberg, Eric, San Diego, CA, UNITED STATES

PATENT ASSIGNEE(S): Neose Technologies, Inc., Horsham, PA (U.S.

corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 2002160460 A1 20021031 US 2002-81456 A1 20020221 (10)

APPLICATION INFO.:

Continuation of Ser. No. US 1998-7741, filed on 15 Jan RELATED APPLN. INFO.:

1998, GRANTED, Pat. No. US 6399336

DATE NUMBER

US 1997-35710P 19970116 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 58 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 1142

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention provides methods for practical in vitro sialylation of glycoproteins, including recombinantly produced glycoproteins. The

methods are useful for large-scale modification of sialylation patterns.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 111 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2002:217057 USPATFULL

TITLE: Enzymatic synthesis of gangliosides

DeFrees, Shawn, San Marcos, CA, United States INVENTOR(S):

Neose Technologies, Inc., Horsham, PA, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6440703 B1 20020827 US 2001-935363 20010822 APPLICATION INFO.: (9)

Continuation of Ser. No. US 1998-203200, filed on 30 RELATED APPLN. INFO.:

Nov 1998, now abandoned

NUMBER DATE

PRIORITY INFORMATION: US 1997-67693P 19971201 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Prats, Francisco

LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s) LINE COUNT: 1312

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention provides methods for practical in vitro synthesis of gangliosides and other glycolipids. The synthetic methods typically involve enzymatic synthesis, or a combination of enzymatic and chemical synthesis. One or more of the enzymatic steps is preferably carried out in the presence of an organic solvent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 125 OF 164 USPATFULL on STN

ACCESSION NUMBER: 2001:63652 USPATFULL

TITLE: Method for enhancing the activity of an enzyme

Hage, Ronald, Vlaardingen, Netherlands INVENTOR(S):

Hora, Jiri, Den Haag, Netherlands

Swarthoff, Ton, Vlaardingen, Netherlands

Twisker, Robin Stefan, Vlaardingen, Netherlands

Lever Brothers Company, division of Conopco, Inc., New PATENT ASSIGNEE(S):

York, NY, United States (U.S. corporation)

KIND DATE NUMBER -----US 6225275 B1 20010501 US 1998-93635 19980604 (9) PATENT INFORMATION:

APPLICATION INFO.:

NUMBER DATE _____

PRIORITY INFORMATION: EP 1997-201748 19970610

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Del Cotto, Gregory R.

LEGAL REPRESENTATIVE: Mitelman, Rimma

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM: LINE COUNT: 622

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A first aspect of the invention is a process for enhancing the activity of an oxidorecudtase by adding to the enzyme, certain specific compounds which are capable of enhancing the activity of said oxidoreductase enzyme. A second aspect of the invention is an enzymatic bleach composition comprising an oxidoreductase and enhancing compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 128 OF 164 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

ACCESSION NUMBER: 2001-578992 [65] WPIDS

DOC. NO. CPI: C2001-171892

Assay for inorganic phosphate, involves treating sample TITLE:

with specific enzyme and correlating obtained detectable product with inorganic phosphate present in the reaction

mixture.

DERWENT CLASS: B04 D16 E13

INVENTOR(S): HAUGLAND, R P; ZHOU, M

PATENT ASSIGNEE(S): (MOLE-N) MOLECULAR PROBES INC

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG -------US 6265179 B1 20010724 (200165) * GB 2360846 A 20011003 (200166)

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE

US 2000-495882 20000201 GB 2001-2200 20010129 US 6265179 B1 GB 2360846 Α

PRIORITY APPLN. INFO: US 2000-495882 20000201

WPIDS 2001-578992 [65]

6265179 B UPAB: 20011108 AB

> NOVELTY - Reaction mixture is produced by treating sample with phosphorylase enzyme (PE), PE substrate (PES), oxidase enzyme (OE), peroxidase enzyme (POE) and POE substrate (POES) of preset formula.

DETAILED DESCRIPTION - The method involves producing a reaction mixture by treating a sample, simultaneously or sequentially with a phosphorylase enzyme, phosphorylase enzyme substrate, oxidase enzyme, peroxidase enzyme and peroxidase enzyme substrate. When inorganic phosphate is present in the reaction mixture, phosphorylase enzyme converts inorganic phosphate and phosphorylase enzyme substrate into phosphorylase product(s), at least one of which is an oxidase substrate for oxidase enzyme, oxidase enzyme converts oxidase substrate into oxidase product(s) at least one of which is hydrogen peroxide, and peroxidase enzyme converts peroxidase enzyme substrate into a detectable product in presence of hydrogen peroxide. The presence or amount of detectable product in the reaction mixture is detected and correlated with presence or amount of inorganic phosphate in the reaction mixture. The peroxidase enzyme substrate is represented by formula (I).

R2-R5 = H, F, Cl, Br, I, CN, 1-6C alkyl or 1-6C alkoxy each optionally substituted by F, Cl, Br, I, carboxylic acid, its salt or its ester of 1-6C alcohol, sulfonic acid or its salt;

R1, R6 = H, or R1 in combination with R2 or R5 in combination with R6 or both form a fused aromatic six membered ring optionally substituted by one or more times of F, Cl, Br, I, CN, 1-18C alkyl or 1-18C alkoxy each optionally substituted by F, Cl, Br, I, carboxylic acid, its salt or its ester of 1-6C alcohol, sulfonic acid or its salt;

A, B' = OH or NR8R9;

R8, R9 = H, 1-6C alkyl, 1-6C carboxyalkyl or its salt, 1-6C sulfoalkyl or its salt, each optionally substituted by amino, hydroxy, carboxylic acid, its salt or its ester of 1-6C alcohol, or R8 in combination with R9 forms piperidine, morpholine, pyrrolidine or piperazine, each optionally substituted by methyl, carboxylic acid, its salt or its ester of 1-6C alkyl, sulfonic acid or its salt, or R8 in combination with R2, or R9 in combination with R3, or both form a 5- or 6-membered ring optionally substituted by one or more times F, Cl, Br, I, CN, 1-6C alkyl or 1-6C alkoxy each optionally substituted by F, Cl, Br, I, carboxylic acid, its salt or its ester of 1-6C alcohol, sulfonic acid or its salt;

X = N-(C=Y)-R10, N-(SO2)-R11 or CHR12;= 0 or S;

R10 = H, 1-6C (perfluoro)alkyl, 1-6C alkoxy, 1-6C alkenyl, aryl, amino, 1-6C alkylamino or 1-6C dialkylamino;

R11 = H, 1-6C (perfluoro)alkyl, 1-6C alkenyl, aryl, amino, 1-6C alkylamino or 1-6C dialkylamino;

R12 = H, F, CN, carboxylic acid, its salt or its ester of 1-6C alcohol, or 1-6C alkyl optionally substituted one or more times by F, Cl, Br, carboxylic acid, its salt or its ester of 1-6C alcohol, sulfonic acid or its salt, amino, 1-6C alkylamino or 1-6C dialkylamino or compound (Ia);

R13-R17 = H, F, Cl, Br, I, sulfonic acid, its salt, carboxylic acid or its salt.

INDEPENDENT CLAIMS are also included for the following:

(i) Assay of maltose: The method involves producing a reaction mixture by treating a sample simultaneously or sequentially with inorganic phosphate, maltose phosphorylase enzyme, glucose oxidase enzyme, peroxidase enzyme, and peroxidase enzyme substrate. When maltose is present in reaction mixture, maltose phosphorylase converts inorganic phosphate and maltose into glucose and glucose-1-phosphate, glucose oxidase converts glucose into oxidase products, at least one of which is

H2O2, and peroxidase enzyme converts peroxidase enzyme substrate into a detectable product in presence of H2O2. The presence or amount of detectable product is detected and correlated with maltose in the reaction mixture;

- (ii) Assay for phosphate-producing enzyme: The method involves producing reaction mixture by treating sample with appropriate substrate for phosphate-producing enzyme, phosphorylase enzyme, phosphorylase enzyme substrate, oxidase enzyme and peroxidase enzyme substrate. The phosphate-producing enzyme converts phosphate-producing enzyme substrate into product(s), at least one of which is inorganic phosphate, phosphorylase enzyme converts inorganic phosphate and phosphorylase, enzyme substrate into phosphorylase product(s), at least one of which is oxidase substrate and oxidase enzyme converts oxidase substrate into oxidase product(s), at least one of which is hydrogen peroxide, and peroxidase enzyme converts peroxidase enzyme substrate into detectable compound. The presence or amount of detectable product is correlated with presence or amount of phosphate producing enzyme;
- (iii) Composition comprising phosphorylase enzyme, phosphorylase enzyme substrate, oxidase enzyme, peroxidase enzyme and peroxidase enzyme substrate; and
- (iv) Kit comprising phosphorylase enzyme, phosphorylase enzyme substrate, oxidase enzyme, peroxidase enzyme and peroxidase enzyme substrate.

USE - For detecting and quantifying inorganic phosphate in samples. ADVANTAGE - The method is highly sensitive and may be utilized at wavelengths that are more compatible with biological samples. The method is performed at physiological pH and continuous assay is permitted. The method is valuable tool for measuring variety of phosphate dependent enzymes in biological samples. Dwg.0/2

L5 ANSWER 129 OF 164 IFIPAT COPYRIGHT 2006 IFI on STN

AN 03540034 IFIPAT; IFIUDB; IFICDB

TITLE: METHOD OF SEQUENCING DNA BASED ON THE DETECTION OF

THE RELEASE OF PYROPHOSPHATE AND

ENZYMATIC NUCLEOTIDE DEGRADATION; USING

POLYMERASE CHAIN REACTION TO EXTEND A PRIMER AND

RELEASE INORGANIC PYROPHOSPHATE, THEN DETECTING RELEASE OF INORGANIC

PHOSPHATE TO IDENTIFY BASE COMPLEMENTARY TO

TARGET POSITION; REMOVING UNINCORPORATED

NUCLEOTIDES USING ENZYME

INVENTOR(S): Nyren; Pal, Skarpnack, SE PATENT ASSIGNEE(S):

Pyrosequencing AB, Uppsala, SE Horlick, Kenneth R PRIMARY EXAMINER:

AGENT: Baker Botts

NUMBER PK DATE -----PATENT INFORMATION: US 6258568 B1 20010710 (CITED IN 001 LATER PATENTS) WO 9828440 19980702 APPLICATION INFORMATION: US 1999-331517 19990723 WO 1997-GB3518 19971222

19990723 PCT 371 date 19990723 PCT 102(e) date

EXPIRATION DATE: 22 Dec 2017

NUMBER DATE -----PRIORITY APPLN. INFO.: GB 1996-26815 19961223 FAMILY INFORMATION: US 6258568 20010710

DOCUMENT TYPE: Utility REASSIGNED

FILE SEGMENT: CHEMICAL GRANTED

MICROFILM REEL NO:

010241 FRAME NO: 0503

NUMBER OF CLAIMS:

17

GRAPHICS INFORMATION:

6 Drawing Sheet(s), 6 Figure(s).

The present invention relates to a method of sequencing DNA, based on the detection of base incorporation by the release of pyrophosphate (PPi) and

simultaneous enzymatic nucleotide degradation.

CLMN

6 Drawing Sheet(s), 6 Figure(s). GI

ANSWER 135 OF 164 USPATFULL on STN

ACCESSION NUMBER:

1999:78582 USPATFULL

TITLE: INVENTOR (S): Enzymatic synthesis of glycosidic linkages Defrees, Shawn, San Marcos, CA, United States Bayer, Robert J., San Diego, CA, United States Ratcliffe, Murray, Carlsbad, CA, United States

PATENT ASSIGNEE(S):

Cytel Corporation, San Diego, CA, United States (U.S.

corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 5922577

19990713

APPLICATION INFO.:

US 1996-628545

19960410 (8)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1995-419669, filed on 11 Apr 1995, now patented, Pat. No. US 5728554 And

Ser. No. US 1995-419659, filed on 11 Apr 1995

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Prats, Francisco

LEGAL REPRESENTATIVE:

Townsend and Townsend and Crew LLP

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

11 Drawing Figure(s); 10 Drawing Page(s)

LINE COUNT:

1809

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides improved methods for the formation of glycosidic linkages. These methods are useful for the preparation of compounds of formula:

NeuAc α (2 \rightarrow 3) Gal β (1 \rightarrow 4) (Fuc α $1\rightarrow3$) GlcN(R') $\beta(1\rightarrow3)$ Gal β --OR

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d kwic 4 8 12 17 24 30-31 56-57 62 65 66 71-72 96 111 125 128 129 135 15

L5 ANSWER 4 OF 164 USPATFULL on STN

. . being added almost daily to maintain the metal ion DETD concentration. Manganese ion is a required cofactor for at least one enzyme in the sialyl transferase cycle. However, the manganese ion inorganic phosphate produced form a complex of very low solubility. Because of this limited solubility, the transferase cycle can continue to proceed, but at reduced reaction rates. By supplementing the manganese ions which are lost by precipitation with pyrophosphate, the rate

of reaction can be maintained. Thus, when manganese ion concentration is maintained in an optimal range, the sialyl. .

ANSWER 8 OF 164 USPATFULL on STN L5

DETD Thus, the multi-enzyme system started with mannose 1phosphate (Man-1-P) which was synthesized from mannose in three steps in this laboratory [Sim et al., J. Am. Chem. Soc., in press). Mannose 1-phosphate reacted with GTP catalyzed by GDP-mannose